CLAIM LISTING

- (Currently Amended): A biodegradable implant comprising:
- a rigid <u>biodegradable polymer or copolymer</u> matrix component containing at least one biodegradable polymer or copolymer, and
 - a plasticizer dispersed within the rigid matrix;

wherein the to produce an implant [[that]] is flexible and rigid prior to insertion into an organ system,

which wherein the plasticizer is operative to substantially exit exits from the implant after coming into contact with tissue fluids of an organ system, in such a manner that

wherein the bending resistance of the implant prior to the insertion of the implant into the organ system is substantially lower than after its insertion into the organ system, and

wherein the implant has a <u>plasticizer-created</u> porous surface and a substantially nonporous core.

- 2. (Currently Amended): A biodegradable implant comprising:
- a rigid <u>biodegradable polymer or copolymer</u> matrix component containing at least one biodegradable polymer or copolymer, and
 - a plasticizer dispersed within the rigid matrix;

wherein the to produce an implant [[that]] is flexible and rigid prior to insertion into an organ system,

which wherein the plasticizer substantially comprises N-methyl-2-pyrrolidone (NMP),

and which wherein the plasticizer is operative to substantially exit exits from the implant after coming into contact with tissue fluids of an organ system, in such a manner that

wherein the bending resistance of the implant prior to the insertion of the implant into an organ system is substantially lower than after its insertion into the organ system, and

wherein the implant has a <u>plasticizer-created</u> porous surface and a substantially nonporous core.

 (Original): An implant as claimed in claim 1, wherein the matrix component comprises at least one of the following polymers or copolymers that is selected from the following group: polyglycolide, polylactides, polycaprolactones, polytrimethylenecarbonates, polyhydroxybutyrates, polyhydroxyvalerates, polydioxanones, polyorthoesters, polycarbonates, polytyrosinecarbonates, polyorthocarbonates, polyalkylene oxalates, polyalkylene succinates, poly(malic acid), poly(maleic anhydride), polypeptides, polydepsipeptides, polyvinylalcohol, polyesteramides, polyamides, polyamhydrides, polyurethanes, polyphosphazenes, polycyanoacrylates, polyfumarates, poly(amino acids), modified polysaccharides, modified proteins and copolymers thereof.

- (Original): An implant as claimed in claim 1, wherein at least the surface of the implant is porous.
- (Currently Amended): An implant as claimed in claim 1, wherein active agents, such as selected from the group consisting of antibiotics, pharmaceutical products, growth hormones, styptic agents[[,]] and chemotherapy agents, are arranged in the implant.
- (Original): An implant as claimed in claim 1, wherein the plasticizer is added to the matrix material at the latest at the forming stage of the implant.
- (Original): An implant as claimed in claim 1, wherein the plasticizer is added to the implant just before the implant is inserted into the organ system.
- (Original): An implant as claimed in claim 1, wherein the implant is a membrane used in guided tissue regeneration.
- (Currently Amended): A method for manufacturing a biodegradable implant comprising the steps of:

selecting at least one biodegradable polymer or copolymer <u>as</u> [[of]] a rigid matrix component of the implant,

adding a plasticizer to the matrix component,

wherein the plasticizer is operative to produce an implant that is flexible and rigid prior to insertion into an organ system.

which wherein the plasticizer is dispersed within the rigid matrix and is operative to substantially exit exits from the implant after coming into contact with tissue fluids of the organ system in such a manner that the rigidity of the implant increases substantially after the implant is inserted into the organ system, and

forming the flexible implant from the mixture of said matrix component and plasticizer, such that the implant has a <u>plasticizer-created</u> porous surface and a substantially nonporous core.

10. (Currently Amended): A method for manufacturing a biodegradable implant comprising the steps of:

selecting at least one biodegradable polymer or copolymer as [[of]] a rigid matrix component of the implant,

forming the implant from said matrix component, and

adding a plasticizer to the formed matrix component;

wherein the plasticizer is operative to produce an implant that is flexible and rigid prior to insertion into an organ system,

which wherein the plasticizer is dispersed within the rigid matrix and is operative to substantially exit exits from the implant after coming into contact with tissue fluids of the organ system in such a manner that the rigidity of the implant increases substantially after the implant is inserted into the organ system,

such that the implant has a <u>plasticizer-created</u> porous surface and a substantially nonporous core.

- (Currently Amended): A method as claimed in claim 10 [[9]], wherein the plasticizer comprises N-methyl-2-pyrrolidone (NMP).
- (Currently Amended): A method as claimed in claim 10 [[9]], wherein the
 plasticizer is added to the implant just before the implant is inserted into the organ system.
- (Currently Amended): A method as claimed in claim 10 [[9]], wherein the matrix
 component comprises at least one of the following polymers or copolymers that is selected from

the following group: polyglycolide, polylactides, polycaprolactones, polytrimethylenecarbonates, polyhydroxybutyrates, polyhydroxyvalerates, polydioxanones, polyorthoesters, polycarbonates, polytryrosinecarbonates, polyorthocarbonates, polyalkylene oxalates, polyalkylene succinates, poly(malic acid), poly(maleic anhydride), polypeptides, polydepsipeptides, polyvinylalcohol, polyesteramides, polyamides, polyamlydrides, polyurethanes, polyphosphazenes, polycyanoacrylates, polyfumarates, poly(amino acids), modified polysaccharides, modified proteins and copolymers thereof.

(Cancelled)

- (Currently Amended): A method as claimed in claim 10 [[9]], wherein active
 agents are added to the implant.
- 16. (Original): A method as claimed in claim 15, wherein the active agents are first mixed into the plasticizer and then added together with the plasticizer to the matrix component.
- 17. (Currently Amended): A method as claimed in claim 10 [[9]], wherein the implant is a membrane used in guided tissue regeneration.